

**PRACTICE TEST 1 - CHAPTER 1 AND 2**

Beginning and Intermediate Algebra by Elayn Martin-Gay, 6th edition

**\*\*Reminder: Graphing Calculators will NOT be allowed on MATH 0361 tests\*\*****Simplify the expression:**

1.  $5[5 + 5(7 - 2)]$

2.  $\frac{3 + 6(8 - 5)}{4^2 + 2}$

14.  $\frac{2}{5}x + \frac{4}{5} = -\frac{4}{5}$

15.  $0.7x - 1.6 = 0.5$

16.  $\frac{7}{10}x - \frac{1}{5} = 4$

**Evaluate the expression:**

3.  $x^2 - 5y + x$  when  $x = 20$  and  $y = 6$

4.  $\frac{x}{z} + 3y$  if  $x = 6$ ,  $y = 3$ , and  $z = 2$ .

**Using  $x$  as the unknown number, write the statement as an equation and then solve the equation for  $x$ .**

17. Three times a number, minus 6, is equal to two times the number, plus 7.

18. A 42-inch board is to be cut into three pieces so that the second piece is twice as long as the first piece and the third piece is 4 times as long as the first piece. If  $x$  represents the length of the first piece, find the lengths of all three pieces.

**Simplify:**

5.  $m - 7m - 3m + 5$

6.  $4(x + 2) - (2x - 7)$

7. Subtract  $9x + 10$  from  $6x - 10$

**Write the following phrase as an algebraic expression and simplify if possible. Let  $x$  represent the unknown number:**

8. Triple a number, minus the sum of the number and three

19. A 17-foot piece of string is cut into two pieces so that the longer piece is 5 feet longer than twice the shorter piece. If the shorter piece is  $x$  feet long, find the lengths of both pieces.

**Solve the equation:**

9.  $x + 2 = 4$

10.  $-4(x + 2) + 5x = 12$

11.  $-9x = 81$

12.  $\frac{3}{7}x = -9$

13.  $8y + 3(y - 6) = 4(y + 1) - 2$

20. The left and right page numbers of an open book are two consecutive integers whose sum is 455. Find these page numbers.

**MATH0361 Practice Test 1 Answers:**

1) 150

2)  $\frac{7}{6}$

3) 390

4) 12

5)  $-9m+5$

6)  $2x+15$

7)  $-3x-20$

8)  $2x-3$

9)  $x = 2$

10)  $x = 20$

11)  $x = -9$

12)  $x = -21$

13)  $y = \frac{20}{7}$

14)  $x = -4$

15)  $x = 3$

16)  $x = 6$

17)  $x = 13$

18) 6 in, 12 in, 24 in

19) 4 ft and 13 ft

20) 227 & 228